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INTERNATIONAL SEARCH REPORT

International application No.

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IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : B26D 1/04; B24B 1/00 : 83/835,837,656,447.2,663 o International Patent Classification (IPC) or to both 1	national (classification and IPC			
	LDS SEARCHED					
Minimum do U.S. : 8	ocumentation searched (classification system followed 33/835,837,656,447.2,663; 451/20,57,58,69,70,71,12	l by class 25,178,2	sification symbols) 41,244,411,412,541; 125/15,13.	1,14		
Documentati	on searched other than minimum documentation to th	e extent	that such documents are included	l in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East Search						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where	appropri	ate, of the relevant passages	Relevant to claim No.		
Y - Y	US 6,012,977 A (YOSHIKAWA et al.) 11 January 64 and column 3, lines 41-67.	2000 (1	1. 01. 2000), column 1, lines 10	2, 3, 5, 9, 10, 14, 15, and 16		
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Y	US 6,354,909 B1 (BOUCHER et al.) 12 March 200 and column 2, lines 1-10.		3. 2002), column 1, lines 62-67	2, 3, 5, 9, 10, 14, 15, and 16		
Α	US 5,471,970 A (SAKARCAN) 5 December 1995 lines 9-50.	(05. 12.	1995), Figure 3 and column 4,	1-16		
Α	US 4,576,139 A (COGSWELL) 18 March 1986 (18	8. 03. 19	986), Figures 1 and 2.	1-16		
A	US 5,351,444 A (STEERE, Jr.), 4 October 1994 (C	04. 10. 1	994), Figures 1-3.	1-16		
A	US 3,556,074 A (NELKE) 19 January 1971 (19. 01	-		1-16		
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Further	documents are listed in the continuation of Box C.		See patent family annex.			
Sı	ecial categories of cited documents:	"T"	later document published after the in date and not in conflict with the app			
	cument defining the general state of the art which is not considered to be principle or theory underlying the invention particular relevance "X" document of particular relevance; the claimed invention cannot be		vention			
••	earlier application or patent published on or after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone					
	which may throw doubts on priority claim(s) or which is cited to ne publication date of another citation or other special reason (as	"Y"	document of particular relevance; the considered to involve an inventive se combined with one or more other su	ep when the document is		
	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in			
priority da		"&"	document member of the same pater			
	e of the actual completion of the international search August 2004 (04.08.2004) Date of mailing of the international search report 25 AUG 2004					
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Form PCT/ISA/210 (second sheet) (July 1998)

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A, P	US 6,517,427 B1 (YOSHIKAWA et al.) 11 February 2003 (11. 02. 2003), column 2, lines 49-65 and col. 3, lines 1-55.	1-16
, A	US 6,632,126 B1 (COGSWELL) 14 October 2003 (14. 10. 2003), Figures 1-3.	1-6
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